AMENDED CLAIMS

We claim:

- 1-16. (Previously canceled)
- 17. (Previously Presented) A method for laser vision correction, comprising providing a controlled biodynamic response in corneal tissue of an eye by inflicting a controlled trauma to an exposed corneal surface outside an identified optical zone for a myopia correcting nominal laser ablation of the cornea.
- 18. (Currently Amended) The method of claim 17, wherein providing the controlled biodynamic response includes a flattening of the corneal surface over at least a central portion of the optical zone.
- 19. (Currently Amended) The method of claim 17, wherein inflicting the controlled trauma comprises laser ablating a portion of the exposed corneal surface.
- 20. (Currently Amended) The method of claim 319, wherein laser ablating a portion of the exposed corneal surface comprises ablating at least a portion of a ring of corneal tissue having a circular or an acircular shape.
- 21. (Currently Amended) The method of claim 420, wherein the at least a portion of the ablation ring has an inner boundary adjacent an outer boundary of the optical zone.
- 22. (Currently Amended) The method of claim 521, wherein the inner boundary of the at least a portion of the ablation ring begins at a distance, d, from the outer boundary of the optical zone, where $200\mu\text{m} \leq d \leq 600\mu\text{m}$.
- 23. (Currently Amended) The method of claim 420, comprising ablating the at least a portion of the ring to a depth, t, where $10\mu\text{m} \le t \le 70\mu\text{m}$, and having a width, w.
- 24. (Currently Amended) The method of claim 723, wherein t and w are variable as a function of biodynamic ablation location on the cornea.

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- 25. (Currently Amended) The method of claim 723, wherein w is a function of the laser beam diameter on the cornea.
- 26. (Currently Amended) The method of claim 723, wherein w has a nominal value of about 1mm.
- 27. (Currently Amended) The method of claim 420, comprising ablating the at least a portion of the ring within a transition zone of the nominal ablation of the cornea.
- 28. (Currently Amended) The method of claim 17, wherein providing the controlled biodynamic response comprises creating a tissue ablation volume for a desired refractive correction that is less than a corresponding tissue ablation volume for the desired refractive correction in the absence of the controlled biodynamic response.
- 29. (Currently Amended) The method of claim 1228, wherein the lessened tissue ablation volume has a smaller ablation depth over the optical zone than a corresponding ablation depth over the optical zone in the absence of the controlled biodynamic response.
- 30. (Currently Amended) The method of claim 17, wherein providing the controlled biodynamic response comprises empirically determining the controlled biodynamic response from a statistically significant population.
- 31. (Currently Amended) The method of claim 17, wherein providing the controlled biodynamic response comprises delivering a plurality of photoablative light pulses onto the corneal surface, all of which have only a 1mm diameter.
- 32. (Currently Amended) The method of claim 4531, wherein the plurality of photoablative light pulses have a direct aperture transmission portion and a diffractive aperture transmission portion so as to produce a soft-spot beam intensity profile.
- 33. (Previously Presented) A method for a LASIK or a LASEK myopia correction, comprising:

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ablating a volume of corneal tissue outside an optical zone of a nominal ablation region of the cornea.

- 34. (Currently Amended) The method of claim 4733, wherein the volume of ablated corneal tissue is in the form of at least a portion of a ring of ablated corneal tissue having a circular or an acircular shape.
- 35. (Currently Amended) The method of claim 1834, wherein the at least a portion of the ring has an inner boundary adjacent an outer boundary of the optical zone.
- 36. (Currently Amended) The method of claim $49\underline{35}$, wherein the inner boundary of the at least a portion of the ablation ring begins at a distance, d, from the outer boundary of the optical zone, where $200\mu\text{m} \le d \le 600\mu\text{m}$.
- 37. (Currently Amended) The method of claim 2036, comprising ablating the at least a portion of the ring to a depth, t, where $10\mu\text{m} \le t \le 70\mu\text{m}$, and a width, w.
- 38. (Currently Amended) The method of claim 2137, wherein t and w are variable as a function of biodynamic ablation location on the cornea.
- 39. (Currently Amended) The method of claim 2137, wherein w is a function of the laser beam diameter on the cornea.
- 40. (Currently Amended) The method of claim 2137, wherein w has a nominal value of about 1mm.
- 41. (Currently Amended) The method of claim 2440, comprising ablating the at least a portion of the ring within a transition zone of the nominal ablation of the cornea.
- 42. (Currently Amended) The method of claim 1733, wherein ablating the volume of corneal tissue comprises creating a tissue nominal ablation volume in the optical zone for a desired refractive correction that is less than a corresponding tissue nominal ablation volume in the optical zone for the desired refractive correction in the absence of the controlled biodynamic response.

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- 43. (Currently Amended) The method of claim 2642, wherein the lessened tissue nominal ablation volume has a smaller ablation depth over the optical zone than a corresponding ablation depth over the optical zone in the absence of ablating the volume of corneal tissue.
- 44. (NewPreviously Presented) In an improved device readable medium having stored therein an executable instruction for directing an ophthalmic vision correcting laser platform to deliver a myopia correcting nominal ablation in an optical zone of a corneal surface, the improvement comprising an executable instruction stored in the medium for directing the ophthalmic vision correcting laser platform to deliver a myopia correction enhancing biodynamic ablation in the corneal surface outside of the optical zone.
- 45. (Currently Amended) The device readable medium of claim 2844, wherein the biodynamic ablation has the form of at least a portion of a ring having an inner boundary adjacent an outer boundary of the optical zone, wherein the ring has a circular or an acircular shape.
- 46. (Currently Amended) The device readable medium of claim 2945, wherein the inner boundary of the biodynamic ablation is separated from the outer boundary of the optical zone by a distance, d, where $200\mu m < d < 600\mu m$.
- 47. (Currently Amended) The device readable medium of claim $29\underline{45}$, wherein the at least a portion of the ring has a depth, t, where $10\mu\text{m} \le t \le 70\mu\text{m}$, and a width, w.
- 48. (Currently Amended) The device readable medium of claim 3147, wherein t and w are variable as a function of biodynamic ablation location on the cornea.
- 49. (Currently Amended) The device readable medium of claim 3147, wherein w is a function of the laser beam diameter on the cornea
- 50. (Currently Amended) The method of claim 2945, wherein w has a nominal value of about 1mm.

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- 51. (Currently Amended) The device readable medium of claim 2945, wherein the at least a portion of the ring is located within a transition zone of the nominal ablation of the cornea.
- 52. (Currently Amended) The device readable medium of claim 2945, wherein the controlled delivered biodynamic ablation comprises a plurality of photoablative light pulses delivered to the corneal surface, all of which have only a 1mm diameter.